

*Curriculum Vitæ*  
**Bonnie T. Fleming**

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**Academic Positions:**

2009-present: Horace D. Taft Associate Professor of Physics, Yale University  
2008-2009: Associate Professor, Yale University  
2004-2008: Assistant Professor, Yale University  
2002-2004: Lederman Fellow, Fermi National Accelerator Lab  
1996-2002: Graduate Student, Columbia University, New York, NY  
1998-2002: Research Assistant  
1996-1998: Teaching Assistant  
1993-1996: Physics Associate, AGS Department, Brookhaven National Lab

**Education:**

2002: Ph.D, Physics, Columbia University, New York, NY  
1999: M.Phil, Physics, Columbia University, New York, NY  
1998: M.A., Physics, Columbia University, New York, NY  
1993: B.A., Physics, Barnard College, Columbia University, New York, NY

**Awards:**

Kavli Frontier Fellow, 2007, National Academy of Sciences  
NSF CAREER Award, 2007  
Junior Faculty Fellowship, Yale University, 2007  
Luise Meyer-Schutzmeister Award, Association of Women in Science, 2001  
Henry R. Boorse Prize in Physics, Barnard College, 1993  
Departmental Honors, Barnard College, 1993

**Collaboration/Experiment Participation:**

Long Baseline to DUSEL, Spokesperson for the LAr Sub-Group, 2008-present  
MicroBooNE (E974), Spokesperson, 2007-present  
ArgoNeuT (T962), Spokesperson, 2006-present  
FINeSSE, co-spokesperson, 2002-2005  
BooNE (E898), member, 1997-present  
CTEQ, member, 1997-2001  
CCFR/NuTeV (E815), member, 1997-present

**Professional Committees:**

2009: NSF review committee, chair  
2008-2009: Organizing Committee for Science Symposium, National Academy of the Sciences  
2008: Member of International Advisory Board for the CIPANP Conference  
2006-2007: Member of DOE Dark Matter Science Assessment Group (DMSAG)  
2006-present: Science Advisory Council, Barnard College, Columbia University  
2006: NSERC review committee member  
2006: NSF review committee member  
2006: International Advisory Board for FNAL/BNL Long Baseline Neutrino Study.  
2002-2004: Member of Fermilab Summer Internship in Science and Technology (SIST) committee  
2001: Young Physicists Forum Committee member, Snowmass 2001  
2000-present: Member and co-founder of Young Particle Physicists (YPP)  
1999-2000: Graduate Student Association Representative, Fermilab  
1999-2000: Fermilab Users' Executive Committee member

**Conference/Workshop/Study participation:**

- 2009: Co-convener for Neutrino sessions, WIN2009
- 2007-2009: Co-convener for Neutrino Group, Fermilab Project X workshop.
- 2006: Hosted "Workshop on Neutrino Physics with LArTPCs", Yale University, July 2006.
- 2006: Working group leader for Liquid Argon group for Fermilab/Brookhaven Long Baseline Neutrino Oscillation Study.
- 2005: Convener for neutrino session: The Future of Nuclear Physics at LANSCE
- 2004: Chair for working group for short baseline neutrino physics at future superbeams facilities: APS Neutrino Study, 2004
- 2003: Co-convener for the neutrino physics sessions: CIPANP 2003
- 2003: Convener for the neutrino scattering working group, NuFACT 2003
- 2001: Convener for non-oscillation physics group for E1: Snowmass 2001
- 2001: Co-chair of non-oscillation physics working group for the Fermilab proton driver study

**Presentations and Seminars and Colloquia:**

- Physics Colloquium, Massachusetts Institute of Technology, March 2009: *Desperate Remedies in Neutrino Physics*
- Physics Colloquium, Indiana University, February 2009: *Desperate Remedies in Neutrino Physics*
- Physics Colloquium, University of Cincinnati, January 2009: *Desperate Remedies in Neutrino Physics*

- Cornell University Seminar, Ithaca, NY, October 2008: *The US LArTPC Program: ArgoNeuT, MicroBooNE, and Beyond*
- Enrico Fermi Institute Seminar, University of Chicago, Chicago, IL, October 2008: *MicroBooNE: A Liquid Argon TPC Experiment to Address the Unexpected Results from MiniBooNE*
- uDiG Workshop, plenary session, Brookhaven Lab, Upton, NY, October 2008: *Liquid Argon Summary*
- DUSEL Homestake Workshop, Lead, S.D., April, 2008: *US LAr Program*
- Brookhaven National Laboratory, Seminar, Upton, NY, February, 2008: *Addressing the Unexpected Results from MiniBooNE: The MicroBooNE Experiment*
- DUSEL Scientific Workshop, Washington D.C., December 2007: *LArTPC R&D Towards Massive DUSEL-scale Detectors*
- University of Minnesota Colloquium, Minneapolis, MN, October 2007: *Unexpected Results from MiniBooNE*
- Syracuse University Colloquium, Syracuse, NY, October 2007: *Unexpected Results from MiniBooNE*
- SLAC Summer Institute, Menlo Park, CA, August 2007: *MiniBooNE First Oscillation Results*
- Gordon Conference, Newport, RI, July 2007: *MiniBooNE First Oscillation Results*
- High Energy Physics Seminar, University of Padova, Italy, June 2007: *MiniBooNE First Oscillation Results*
- Special Seminar, Gran Sasso Laboratory, Italy, June, 2007: *MiniBooNE First Oscillation Results*
- Cryodet 2 Workshop, Gran Sasso Laboratory, Italy, June, 2007: *Summary of the Joint FNAL/BNL Long Baseline Study, 2006*
- Stanford University Colloquium, Menlo Park, CA, June 2007: *MiniBooNE First Oscillation Results*
- International Workshop on Neutrino-Nucleus Interactions in the Few GeV Region: NuInt07, Fermilab, Batavia, IL, June 2007: *Measurement of  $CC\pi^+$  events at MiniBooNE*
- Particle Physics and Cosmology PPC07, Texas A&M, Texas, May 2007: *MiniBooNE First Oscillation Results*
- PHENO '07, plenary session, University of Wisconsin, Madison, WI, May 2007: *MiniBooNE First Oscillation Results*
- Yale High Energy Physics Special Seminar, Yale University, New Haven, CT, April 2007: *MiniBooNE First Oscillation Results*
- 2nd Conference for Undergraduate Women in Physics, University of Southern California, CA, invited talk, January 2007: *Nue or not Nue: Neutrino Oscillations and Beyond*
- JPS/DPF 2006, invited talk, parallel session, Hawaii, November 2006: *Liquid Argon Detectors for Long Baseline Neutrino Oscillation Physics*

- Emerging Themes in Physics, plenary session, University of Texas at Austin, Austin, TX, October 2006: *Nue or not Nue: Neutrino Oscillations and Beyond*
- NuFACT 2006, plenary session, Irvine, CA, August 2006: *Detector R&D: Developments and Prospects*
- Neutrino 2006, plenary session, Santa Fe, NM, June, 2006: *Progress on the Mini-BooNE Neutrino Oscillation Search*
- McGill University, Colloquium, Montreal, Canada, March, 2006: *Nue or not Nue? Upcoming Results from MiniBooNE*
- Cryodet Workshop, Gran Sasso Laboratory, Italy, March, 2006: *Neutrino Events in a Liquid Argon Detector on the NuMI Neutrino Beamline*
- Fermilab/Brookhaven Long Baseline Neutrino Oscillation Study, Fermilab, Batavia, IL, March, 2006: *Liquid Argon Detectors for Long Baseline Neutrino Physics*
- University of Washington, Colloquium, Seattle, WA, February, 2006: *Nue or not Nue? Upcoming Results from MiniBooNE*
- Argonne High Energy Physics Seminar, Chicago, IL, December, 2005: *Liquid Argon Detectors for Long Baseline Neutrino Physics*
- University of Iowa, Physics Department Colloquium, November 2005: *Neutrino Surprises, Upcoming Results from MiniBooNE*
- PANIC Satellite Meeting on Neutrino Physics, Santa Fe, NM, October 2005: *Liquid Argon Detectors for Long Baseline Neutrino Physics*
- Massachusetts Institute of Technology, Seminar, Boston, MA, October 2005: *Neutrino Surprises, Upcoming Results from MiniBooNE*
- CAM 2005, plenary session, San Diego, CA, August 2005: *The Standard Model of Particle Physics and Beyond: Surprising Results in Neutrino Physics*
- Physics in Collision (PIC), plenary session, Prague, July 2005: *Neutrino Cross Sections and Scattering*
- 7th International Workshop on Neutrino Factories and Superbeams (NuFACT), Working Group 2, Frascati, Italy, June 2005: *Neutrino Scattering in Liquid Argon TPC Detectors*
- Frontiers in Contemporary Physics III (FCP), Neutrino Physics parallel session, May, 2005: *From Fine Grained Detectors to Liquid Argon TPCs: Neutrino Scattering at 1 GeV*
- APS Annual Meeting, parallel session, Tampa, FL, April 2005: *Neutrino Physics with FINeSSE*
- Yale University, Physics Department Colloquium, New Haven, CT, April, 2005: *Chasing Neutrinos: Discovering the Unexpected.*
- Tufts University, Physics Department Colloquium, Boston, MA, February 2005: *Chasing Neutrinos: Where will Neutrinos Take Us Next?*
- Lawrence Berkely Lab, Heavy Ion Tea Seminar Series, Berkeley, CA, November 2004: *Studying Neutrinos With FINeSSE*
- Fermilab Liquid Argon Experiments Workshop, Batavia, IL, November 2004: *Low Energy Neutrino Experiments with Liquid Argon*

- Fermilab Proton Driver Workshop, WG2: Neutrino Interactions, Batavia, IL, October 2004: *Summary of APS Neutrino Study, Short Baseline Neutrino Scattering Physics*
- The 12th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY), plenary session, Tskuba, Japan, June 2004: *The  $\nu$  Landscape of Particle Physics*
- APS Annual Meeting, invited talk, Denver, CO, May 2004: *Neutrino-Nucleus Interactions with MiniBooNE: What Happens When Nothing Hits Something*
- The Third International Workshop on Neutrino-Nucleus Interactions in the Few GeV Region: NuInt04, 'Future Detectors' session, Gran Sasso National Laboratory, Italy, March, 2004: *FINeSSE*
- University of Maryland, Particle Astrophysics Seminar, College Park, MD, February, 2004: *The  $\nu$  Landscape of Particle Physics*
- Yale University, Nuclear Physics Seminar, New Haven, CT, February, 2004: *The  $\nu$  Landscape of Particle Physics*
- New Mexico State University, Physics Department Colloquium, Las Cruces, NM, February 2004: *The  $\nu$  Landscape of Particle Physics*
- University of New Mexico, Physics Department Colloquium, Albuquerque, NM, January 2004: *The  $\nu$  Landscape of Particle Physics*
- Indiana University, IUCF Seminar, Bloomington, IN, January 2004: *The  $\nu$  Landscape of Particle Physics*
- University of Michigan, Physics Department Colloquium, Ann Arbor, MI, January 2004: *The  $\nu$  Landscape of Particle Physics*
- University of Cincinnati, High Energy Physics Seminar, Cincinnati, OH, November 2003: *FINeSSE: Fermilab Intense Neutrino Scattering Scintillator Experiment*
- University of Maryland, High Energy Physics Seminar, College Park, MD, November 2003: *On the Road to Oscillations: First Results from the MiniBooNE Experiment*
- University of Michigan, High Energy Physics Seminar, Ann Arbor, MI, October 2003: *On the Road to Oscillations: First Results from the MiniBooNE Experiment*
- American Association of Physics Teachers 2003, parallel session, Madison, WI, August 2003: *MiniBooNE: Searching for the Oscillating Neutrino*
- NuFACT 2003, plenary session, Columbia University, New York, NY, June 2003: *Summary of the Neutrino Scattering Physics Working Group Sessions*
- NuFACT 2003, WG2: Neutrino Scattering and Muon Physics, Columbia University, New York, NY, June 2003: *Neutrino Magnetic Moments: Measurements and Predictions from the Standard Model and Astrophysics*
- CIPANP 2003, plenary session, New York, NY, May 2003: *Summary of the Neutrino Physics Parallel Sessions*
- University of Virginia, High Energy Physics Seminar, Charlottesville, VA, May 2003: *FINeSE: Fermilab Intense Neutrino Scattering Experiment*

- APS/DPF Annual Meeting, Philadelphia, PA, April, 2003: *FINeSE: Fermilab Intense Neutrino Scattering Experiment*
- Princeton University, High Energy Physics Seminar, Princeton, NY, March 2003: *FINeSE: Fermilab Intense Neutrino Scattering Experiment*
- University of Wisconsin, High Energy Physics Seminar, Madison, WI, March 2003: *FINeSE: Fermilab Intense Neutrino Scattering Experiment*
- Indiana University, IUCF, Nuclear Physics Seminar, Bloomington, IN, February 2003: *There's More to Neutrinos than Oscillations: Low Energy Neutrino Physics at MiniBooNE and Beyond*
- University of Chicago, High Energy Physics Seminar, Chicago, IL, December 2002: *FINeSE: Fermilab Intense Neutrino Scattering Experiment*
- Particles and Nuclei International Conference, Poster session, Osaka, Japan. October 2002: *There's More to Neutrinos Than Oscillations: Expected Measurements from the MiniBooNE Experiment*
- International Workshop on Nuclear and Particle Physics at 50-GeV PS, parallel session, Kyoto, Japan. September 2002: *Near Detector Physics on the MiniBooNE Beamline*
- Meeting of the Division of Particles and Fields (DPF2002), plenary session, Williamsburg, VA. May 2002: *The  $\nu$  World: Charting New Territory*
- Purdue University, Physics Department Colloquium, Purdue, IN. February 2001: *The Case of the Oscillating Neutrino*
- University of Mississippi, Physics Department Colloquium, Oxford, Mississippi. February 2001: *The Case of the Oscillating Neutrino*
- IEEE 2001, Poster Session, San Diego, CA. November 2001: *PhotoMultiplier Tube Testing for the MiniBooNE Experiment*
- University of Maryland, Physics Department Seminar, College Park, MD, October 2001: *In Search of the Oscillating Neutrino*
- College of William and Mary, Physics Department Colloquium, Williamsburg, VA. February 2001: *Where in the World is the Oscillating Neutrino?*
- IVth Rencontres du Vietnam, parallel session, Hanoi, Vietnam. July 2000: *Recent Structure Function Results from CCFR*
- New Perspectives Conference, parallel session, Fermilab, Batavia, IL, July 2000: *Recent Structure Function Results from CCFR*
- Deep Inelastic Scattering 2000 (DIS2000), parallel session, Liverpool, UK. May 2000: *Recent Structure Function Measurements from the CCFR Experiment*
- Ohio State University Physics Department Seminar Series, Columbus, OH. May 2000: *A First Measurement of Low  $x$ , Low  $Q^2$  Structure Function  $F_2$  in Neutrino Scattering.*
- Fermi National Accelerator Laboratory, Summer Student Lecture Series, Batavia, IL, July 1999: *Neutrino Oscillations Around the World and at Fermilab*
- Los Alamos National Laboratory, P-25 Seminar, Los Alamos, NM, July 1999: *Low  $x$ , Low  $Q^2$  Structure Function Analysis of CCFR data for  $F_2$*

- Particles and Nuclei International Conference, parallel session, Uppsala, Sweden. June 1999: *Low  $x$ , Low  $Q^2$  Structure Function Analysis of CCFR Data for  $F_2$*
- WIN Seminar, Princeton University, Princeton, NJ, 1998: *MiniBooNE*
- New Perspectives Conference, parallel session, Fermi National Laboratory, Batavia, IL, July 1998: *MiniBooNE: A Search for Neutrino Oscillations*
- Barnard College, Physics Department Seminar, New York, NY. 1995: *Accelerator Physics at the Brookhaven AGS*

## Selected Synergistic Activities

- Girls Science Investigations: GSI, New Haven. A Saturday program for 6-8th grade girls funded through Fleming's NSF CAREER grant, 2006-present.
- Faculty advisor for Undergraduate Conference for Women in Physics: Yale, 2008. Conference funded through DOE, NSF, APS, AAPT, and Yale, 2007-present.
- Outreach/Public lectures: Complete list can be found at <http://home.fnal.gov/~bfleming/outreach.html>.

## Experimental Proposals:

- "A Proposal for a New Experiment using the Booster and NuMI Neutrino Beamlines: MicroBooNE", H. Chen *et al.*, 2007
- "A Large Liquid Argon Time Projection Chamber for Long-Baseline, Off-Axis Neutrino Oscillation Physics with the NuMI Beam", C. Bromberg *et al.*, Submitted to the DOE NuSAG committee. Fermilab-FN-0776-e, 2005. <http://www-lartpc.fnal.gov>
- "A Letter of Intent for a Neutrino Scattering Experiment Using an AGS Neutrino Beam", 2004, L. Bugel *et al.* [FINeSSE Collaboration], submitted to the Brookhaven Directorate.
- "A Proposal for a Near Detector Experiment on the Booster Neutrino Beamline: FINeSSE: Fermilab Intense Neutrino Scattering Scintillator Experiment", 2003, L. Bugel *et al.* [FINeSSE Collaboration], FERMILAB-PROPOSAL-0937
- "Expression of Interest: Physics with a Near Detector on the Booster Neutrino Beam Line", 2002., B. T. Fleming *et al.*, <http://www-finesse.fnal.gov>.
- "A proposal for an experiment to measure muon-neutrino  $\rightarrow$  electron-neutrino oscillations and muon-neutrino disappearance at the Fermilab Booster: BooNE", E. Church *et al.* [BooNE Collaboration], FERMILAB-PROPOSAL-0898

## Publications in Refereed Journals:

- "A Regenerable Filter for Liquid Argon Purification," A. Curioni *et al.*, submitted for publication to Nucl. Instrum. Meth., 2009
- "Unexplained Excess of Electron-Like Events From a 1-GeV Neutrino Beam," The MiniBooNE Collaboration. Phys. Rev. Lett **102** 101802, 2009.
- "First Measurement of  $\nu(\mu)$  and  $\nu(e)$  Events in an Off-Axis Horn-Focused Neutrino Beam", The MiniBooNE Collaboration. Submitted to Phys. Rev. Lett., 2009
- "The MiniBooNE Detector", The MiniBooNE Collaboration. Nucl. Instrum. Meth.**A599:28-46**, 2009.
- "Compatibility of high-Delta  $m^2$   $\nu(e)$  and  $\bar{\nu}(e)$  neutrino oscillation searches", The MiniBooNE Collaboration, Phys. Rev. D**78**:012007, 2008



- “The Neutrino Flux Prediction at MiniBooNE”, Submitted to Phys. Rev. D., 2008.
- “First Observation of Coherent  $\pi^0$  Production in Neutrino Nucleus Interactions with  $E(\nu) \geq 2$  GeV”, The MiniBooNE Collaboration, Phys. Lett. **B664**, 41, 2008.
- “Constraining Muon Internal Bremsstrahlung as a Contribution to the MiniBooNE Low Energy Excess”, The MiniBooNE Collaboration. Submitted to Phys. Rev. D., 2008
- “Measurement of muon neutrino quasi-elastic scattering on carbon”, A.A. Aguilar-Arevalo *et al.*, The MiniBooNE Collaboration, Phys. Rev. Lett. **100** 032301, 2008.
- “Measurement of the Nucleon Strange-AntiStrange Asymmetry at Next-to-Leading Order in QCD from NuTeV Dimuon Data”, The NuTeV Collaboration, Phys. Rev. Lett. **99**, 192001, 2007.
- “A Search for electron neutrino appearance at the  $\Delta m^2 \sim 1 - \text{eV}^2$  scale”, A.A. Aguilar-Arevalo *et al.*, The MiniBooNE Collaboration, Phys. Rev. Lett. **98:231801**, 2007. eprint hep-ex/0704.1500
- “PhotoMultiplier Tubes in the MiniBooNE Experiment”, S. Brice *et al.*, Nucl. Instrum. Meth. **A562:97-109**, 2006.
- “Precise measurement of neutrino and anti-neutrino differential cross sections”, M. Tzanov *et al.* [NuTeV Collaboration], Phys. Rev. **D74:012008**, 2006. arXiv:hep-ex/0509010.
- “Nuclear Effects and the Nutev  $\sin^2(\Theta(W))$  Measurement”, K. S. McFarland *et al.*, Nucl. Phys. Proc. Suppl. **112**, 226 (2002).
- “Photomultiplier Tube Testing For The MiniBooNE Experiment”, B. T. Fleming, L. Bugel, E. Hawker, V. Sandberg, S. Koutsoliotas, S. McKenney and D. Smith, IEEE Trans. Nucl. Sci. **49**, 984 (2002).
- “Search for Muon-Neutrino to Electron-Neutrino and Anti-Muon-Neutrino to Anti-Electron Neutrino Oscillations at NuTeV”, by NuTeV Collaboration (S. Avvakumov et al.). Phys. Rev. Lett. **89:011804** 2002. e-Print Archive: hep-ex/0203018
- “On the Effect of Asymmetric Strange Seas and Isospin Violating Parton Distribution Functions on  $\sin^2 \Theta(W)$  Measured in the NuTeV Experiment”, by NuTeV Collaboration (G. P. Zeller et al.). Phys. Rev. **D65:111103** 2002. e-Print archive: hep-ex/0203004
- “A Precise Determination of Electroweak Parameters in Neutrino Nucleon Scattering”, by NuTeV Collaboration (G. P. Zeller et al.). Phys. Rev. Lett. **88:091802** 2002. e-Print Archive: hep-ex/0110059.
- “First Measurement of Low  $x$  Low  $Q^2$  Structure Functions in Neutrino Scattering”, by CCFR Collaboration and NuTeV Collaboration (B. T. Fleming et al.). Phys. Rev. Lett **86:5430** 2001. e-Print Archive: hep-ex/0011094
- “Search for Light-to-Heavy Quark Flavor Changing Neutral Currents in Nu/Mu N and Anti-Nu/Mu N Scattering”, by NuTeV Collaboration (A. Alton et al.). Int. J. Mod. Phys. **A16S1B:489-491** 2001.

- “Extraction of  $R = \sigma(L)/\sigma(T)$  From CCFR Fe-Neutrino(Muon) and Fe-Anti-Neutrino(Muon) Differential Cross-Sections”, by CCFR/NuTeV Collaboration (Un-Ki Yang et al.) *Phys. Rev. Lett.* **87:251802** 2001. e-Print Archive: hep-ex/0104040
- “Observation of Anomalous Dimuon Events in a High-Energy Neutrino Beam”, by NuTeV Collaboration (T. Adams et al.). *Phys. Rev. Lett.* **87:041801** 2001. e-Print Archive: hep-ex/0104037
- “Search for the Lepton Number Violating Process Anti-Neutrino(Muon)  $E \rightarrow \text{Muon-Anti-Neutrino}(E)$ ”, by NuTeV Collaboration (J. A. Formaggio et al.) *Phys. Rev. Lett.* **87:071803** 2001. e-Print Archive: hep-ex/0104029
- “Precise Measurement of Dimuon Production Cross-Sections in Muon Neutrino Fe and Muon Anti-Neutrino Fe Deep Inelastic Scattering at the TeVatron”, by NuTeV Collaboration (M. Goncgarov et al.). *Phys. Rev.* **D64:112006** 2001. e-Print Archive: hep-ex/0102049
- “Measurements of  $F_2$  and  $xF_3^\nu - xF_3^{\bar{\nu}}$  from CCFR  $\nu_\mu$ -Fe and  $\bar{\nu}_\mu$ -Fe data in a Physics Model Independent Way”, by CCFR/NuTeV Collaboration (U. K. Yang et al.). *Phys. Rev. Lett.* **86:2742-2745** 2001. e-Print Archive: hep-ex/0009041
- “Observation of Anomalous Dimuon Events in the NuTeV Decat Detector: Preliminary”, by NuTeV Collaboration (T. Adams et al.) *Int. j. Mod. Phys. A16S1B:761-763* 2001/ e-Print Archive: hep-ex/0009007
- “Observation of Neutral Current Charm Production in Muon Neutrino Fe Scattering at the TeVatron”, by NuTeV Collaboration (A. Alton et al.) *Phys. Rev* **D64:012002** 2001. e-Print Archive: hep-ex/0008068
- “Search for Light to Heavy Quark Flavor Changing Neutral Currents in Muon-Neutrino N and Anti-Muon Neutrino N Scattering at the TeVatron”, by NuTeV Collaboration (A. Alton et al.) *Phys. Rev* **D63:012001** 2001. e-Print Archive: hep-ex/0007059
- “Search For A 33.9-MeV/c<sup>2</sup> Neutral Particle in Pion Decay”, by NuTeV Collaboration (J. A. Formaggio et al.). *Phys. Rev. Lett.* **84:4043-4046** 2000. e-Print Archive: hep-ex/9912062
- “Evidence for Diffractive Charm Production in Muon Neutrino-Fe and Anti-Muon Neutrino-Fe Scattering at the TeVatron”, by NuTeV Collaboration (T. Adams et al.). *Phys. Rev.* **D61:092001** 2000. e-Print Archive: hep-ex/9909041
- “Precision Calibration of the NuTeV Calorimeter”, by NuTeV Collaboration (D. A. Harris et al.). *Nucl.Instrum.Meth.* **A447:377-415** 2000. e-Print Archive: hep-ex/9908056
- “Search for Neutral Heavy Leptons in a High-Energy Neutrino Beam”, by NuTeV Collaboration and E815 Collaboration (A. Vaitaitis et al.). *Phys. Rev. Lett.* **83:4943-4946** 1999. e-Print Archive: hep-ex/9908011

**Contributions Presented at Conferences and Workshops:**

- “The Yale Lar TPC,” , A. Curioni, B. T. Fleming and M. Soderberg, To appear in the proceedings of 5th International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region (NuInt07), Batavia, Illinois, 30 May - 3 Jun 2007. arXiv:0708.0875
- “Neutrino Scattering in Liquid Argon TPC Detectors”, (B. T. Fleming) 3pp., parallel session. Proceedings of NuFACT05, The 7th International Workshop on Neutrino Factories and Superbeams, 2005. Published in Nucl.Phys.Proc.Suppl. **155:245-247**, 2006.
- “Neutrino Cross Sections and Scattering Physics”, (B. T. Fleming) 8pp., plenary session. Proceedings of PIC05, Physics in Collision, 2005. Published in AIP Conf.Proc. **815:1-8**, 2006
- “Physics at a Fermilab Proton Driver”, Fermilab-FN-0778-AD-E, 2005.
- “The Nu Landscape of Particle Physics”, (B. T. Fleming) 9pp., plenary session. Proceedings of SUSY04, The 12th International Conference on Supersymmetry and Unification of Fundamental Interactions.
- “The FINeSSE Detector”, (B. T. Fleming for the FINeSSE collaboration) in the Future Detectors Session, 6pp. Proceedings of NuINT 2004, The 3<sup>rd</sup> International Workshop on Neutrino Interactions in the few GeV Region.
- “Neutrino Scattering and Muon Physics Working Group Summary”, (M. Aoki, A. Baldini, and B. T. Fleming) Oct 2003. 15pp. Proceedings of NuFact 2003, 5<sup>th</sup> International Workshop on Neutrino Factories and Superbeams.
- “Neutrinos Parallel Sessions”, (B. E. Berger and B. T. Fleming) Aug 2003. 7pp. Proceedings of CIPANP 2003.
- “E1 Working Group Summary: Neutrino Factories and Muon Colliders”, (T. Adams et al.) in *Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)* ed. R. Davidson and C. Quigg. eprint Archive: hep-ph/0111030.
- “Results of the Survey on the Future of HEP”, by The Young Physicists Panel (B. T. Fleming et. al.) Aug 2001. 42pp. e-Print Archive: hep-ex/0108040.
- “Young Physicists Forum”, (T. Adams et al.) in *Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)* ed. R. Davidson and C. Quigg. eprint Archive: hep-ph/0111027.
- “Recent Structure Function Results from CCFR” by CCFR Collaboration and NuTeV Collaboration (B. T. Fleming et al.). Jul 2000. 4pp. To be published in the proceedings of 4th Rencontres du Vietnam: International Conference on Physics at Extreme Energies (Particle Physics and Astrophysics), Hanoi, Vietnam, 19-25 Jul 2000. e-Print Archive: hep-ex/0011095.
- “Recent Structure Function Results from CCFR”, by CCFR Collaboration and NuTeV Collaboration (B. T. Fleming et al.). May 2000. 2pp. Proceedings of Deep Inelastic Scattering 2000 (DIS2000), Liverpool, UK. May 2000.

- “Low  $Q^2$  Low  $x$  Structure Function Analysis of CCFR Data for  $F_2$ ”, by CCFR Collaboration (B. H. Tamminga (also known as B. T. Fleming) et al.). Jun 1999. 5pp. Proceedings of the 15th International Conference on Particle and Nuclei (PANIC 99), Uppsala, Sweden, 10-16 Jun 1999. Published in Nucl. Phys. A663:344-348,2000 e-Print Archive: hep-ex/9908064.